

**To:** McComb, Martin[McComb.Martin@epa.gov]  
**Cc:** Delgado, Eric[Delgado.Eric@epa.gov]; Thomas, Mark J.[Thomas.Markj@epa.gov]; Nattis, Randy[Nattis.Randy@epa.gov]; Raj.Dutt@WestonSolutions.com[Raj.Dutt@WestonSolutions.com]; Janine.Latham@WestonSolutions.com[Janine.Latham@WestonSolutions.com]  
**From:** Kudarauskas, Paul  
**Sent:** Wed 8/12/2015 12:27:31 PM  
**Subject:** Re: 1700 -- ASPECT Update -- 11 August 2015

Mark may not be in yet. different time zone. Can someone please call my mobile with the details of you have not heard from Mark yet and we will work on it ASAP.

Thanks.

Paul G Kudarauskas, "Kuda"

Chief, Field Operations Branch

CBRN Consequence Management Advisory Division  
Mobile: 202-344-5382 Office: 202-564-2415

On Aug 12, 2015, at 5:39 AM, McComb, Martin <McComb.Martin@epa.gov> wrote:

Agreed.

Mark,

ASPECT's effort has probably been the lone smooth part of this response so far. Please keep it that way.

Marty

Sent from my iPhone

On Aug 12, 2015, at 3:35 AM, Delgado, Eric <Delgado.Eric@epa.gov> wrote:

Mark, please coordinate with Raj

Sent from my iPhone

Begin forwarded message:

**From:** "Latham (Polinko), Janine" <Janine.Latham@WestonSolutions.com>  
**Date:** August 11, 2015 at 19:34:02 CDT

**To:** "Randy Nattis ([nattis.randy@epa.gov](mailto:nattis.randy@epa.gov))" <[nattis.randy@epa.gov](mailto:nattis.randy@epa.gov)>, "Martin McComb ([martin.mccomb@gmail.com](mailto:martin.mccomb@gmail.com))" <[martin.mccomb@gmail.com](mailto:martin.mccomb@gmail.com)>, ""[Delgado.eric@epa.gov](mailto:Delgado.eric@epa.gov)" ([Delgado.eric@epa.gov](mailto:Delgado.eric@epa.gov))" <[Delgado.eric@epa.gov](mailto:Delgado.eric@epa.gov)>, "[loesel.matthew@epa.gov](mailto:loesel.matthew@epa.gov)" <[loesel.matthew@epa.gov](mailto:loesel.matthew@epa.gov)>, "[wenning.stephanie@epa.gov](mailto:wenning.stephanie@epa.gov)" <[wenning.stephanie@epa.gov](mailto:wenning.stephanie@epa.gov)>  
**Cc:** "Lucotch, John" <[John.Lucotch@WestonSolutions.com](mailto:John.Lucotch@WestonSolutions.com)>, "Bruce, Ian" <[Ian.Bruce@WestonSolutions.com](mailto:Ian.Bruce@WestonSolutions.com)>, "Fuller, Kris" <[Kris.Fuller@WestonSolutions.com](mailto:Kris.Fuller@WestonSolutions.com)>, "Morgan, Bradley" <[Brad.Morgan@WestonSolutions.com](mailto:Brad.Morgan@WestonSolutions.com)>  
**Subject:** FW: 1700 -- ASPECT Update -- 11 August 2015

FYI on ASPECT Image data. Raj has found errors on flights 5,6, and 8. They have not been published.

**From:** Dutt, Rajendra (Raj)  
**Sent:** Tuesday, August 11, 2015 7:32 PM  
**To:** Latham (Polinko), Janine <[Janine.Latham@WestonSolutions.com](mailto:Janine.Latham@WestonSolutions.com)>  
**Cc:** Fuller, Kris <[Kris.Fuller@WestonSolutions.com](mailto:Kris.Fuller@WestonSolutions.com)>  
**Subject:** Re: 1700 -- ASPECT Update -- 11 August 2015

Not yet :-(

Sent from my iPhone

On Aug 11, 2015, at 7:31 PM, Latham (Polinko), Janine <[Janine.Latham@WestonSolutions.com](mailto:Janine.Latham@WestonSolutions.com)> wrote:

Have you heard back from him?

**From:** Dutt, Rajendra (Raj)  
**Sent:** Tuesday, August 11, 2015 7:30 PM  
**To:** Latham (Polinko), Janine <[Janine.Latham@WestonSolutions.com](mailto:Janine.Latham@WestonSolutions.com)>; Fuller, Kris <[Kris.Fuller@WestonSolutions.com](mailto:Kris.Fuller@WestonSolutions.com)>  
**Subject:** FW: 1700 -- ASPECT Update -- 11 August 2015

FYI..

Thanks

Raj Dutt, GISP

***IT Technical Manager***

***Weston Solutions, Inc.***

972-743-5690 (Cell)

469-666-5530 (Office)

**From:** Dutt, Rajendra (Raj)

**Sent:** Tuesday, August 11, 2015 7:27 PM

**To:** 'Thomas, Mark J.'

**Subject:** RE: 1700 -- ASPECT Update -- 11 August 2015

Mark,

There are problem area with flight 5 too. See attached image.

Please confirm if these photo should be removed or adjusted.

Thanks

Raj Dutt, GISP

***IT Technical Manager***

***Weston Solutions, Inc.***

972-743-5690 (Cell)

469-666-5530 (Office)

**From:** Dutt, Rajendra (Raj)  
**Sent:** Tuesday, August 11, 2015 7:10 PM  
**To:** 'Thomas, Mark J.'  
**Subject:** RE: 1700 -- ASPECT Update -- 11 August 2015  
**Importance:** High

Mark,

I just downloaded processed photos, and see problems in photos from Flight 6 and 8.

Some photos from these flights are showing up in OK panhandle area.

See attached image.

I will hold back from publishing photos till I hear from you.

Thanks

Raj Dutt, GISP

***IT Technical Manager***

***Weston Solutions, Inc.***

972-743-5690 (Cell)

469-666-5530 (Office)

**From:** Thomas, Mark J. [<mailto:Thomas.Markj@epa.gov>]  
**Sent:** Tuesday, August 11, 2015 6:15 PM  
**To:** Dutt, Rajendra (Raj); Bruce, Ian; McClain-Vanderpool, Lisa; Cardarelli, John; Curry, Tim; Kudarauskas, Paul; Kroutil, Robert; Lucotch, John; Myers, Craig; Nattis, Randy; Martin, John; McComb, Martin; Latham (Polinko), Janine; Loesel, Matthew

**Subject:** 1700 -- ASPECT Update -- 11 August 2015

ASPECT did not fly today due to poor weather over the collection areas. Time was spent getting caught up on all imagery. All imagery has been uploaded.

Flight 8 shows good examples of color attenuation along all parts of the Animas river. Due to shadows, portions of the canyons north of Durango are too dark to see water color locations up and down stream of the canyon both show good recovery. This set of data was processed twice. A stretch was applied to the canyon frames and normal balance was applied to everything else in an attempt to balance out the level.

Weather for Wednesday looks poor in the early morning but grades to favorable as the day progresses. The team will monitor the weather and adjust accordingly.

The proposed mission profile for 12 August 2015 will consist of:

1. Reduced coverage photographic collection along the San Juan from Bluff, UT to Farmington, NM. Frames will be collected at a rate of 4/5 frames per 4 river miles. Pending weather, this location will be collected first since it is less affected by sun angle.
2. A photographic survey will be conducted from Farmington to the mine. Again, pending weather, this portion of the mission will be timed to occur between 1030 and 1330 (local) to get the best sun angle in the canyon section of the Animas. If a late afternoon flight is conducted, attention will be given to the Durango to Canyon section and the Silverton to mine section.

The latest version of the Summary of ASPECT Flights is attached.

Please let me know if you have any questions.

Mark Thomas, PhD

ASPECT Program Manager

Field Operations Branch

CBRN Consequence Management Advisory Division

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